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UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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CASPER, WYOMING 82601

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WATER SUPPLY OUTLOOK FOR WYOMING

U.S. DEPARTMENT OF AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

STATE ENGINEER OF WYOMING



AS OF
JUNE 1, 1980

"The Conservation of Water begins with the Snow Survey"

BASIC DATA

CORRECTIONS AND ADDITIONS

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †
<u>MARCH 1, 1980</u>					
Canyon	3/03	46	<u>11.6</u>	14.4	14.3
East Rim Divide	<u>2/27</u>	41	<u>10.2e</u>	13.7	12.0
Gros Ventre Summit	<u>2/27</u>	32	<u>7.9e</u>	9.9	10.1
Kendall R.S.	<u>2/27</u>	38	<u>10.0e</u>	13.7	11.2
Lake Camp	<u>3/02</u>	28	<u>7.0</u>	10.2	8.3
Medicine Lodge Lakes	3/08	35	10.9	11.5	9.9
Muddy Creek G.S.	3/08	17	7.0	4.3	2.8
New Fork Lake	<u>2/27</u>	33	<u>8.4e</u>	12.4	10.0
Norris Basin	<u>2/28</u>	32	<u>8.5</u>	8.4	10.1
Old Battle	3/03	102	<u>34.3</u>	43.7	28.5
Onion Gulch	3/08	26	9.0	7.4	7.8
Powder River Pass	3/08	32	10.4	10.8	10.2
Ranger Creek	<u>3/02</u>	28	5.8	8.5	8.7
Shell Creek	3/08	40	12.7	11.3	12.5
Soldier Park	3/08	23	9.0	5.4	4.6
Sour Dough	3/08	26	9.5	6.2	5.5
Tyrell R.S.	3/08	25	8.9	8.0	7.5
Whiskey Creek	2/26	92	27.9	-	-

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †
<u>APRIL 1, 1980</u>					
Deep Lake	3/27	-	43.1e	41.0	40.9*
Moss Lake	3/27	-	27.3e	26.6	25.7*
Old Battle (April 1 value estimated from measurement taken on 4/8.	4/01	-	39.2e	43.6	34.2
Old Battle - April 8	4/08	116	41.2	-	-
Purgatory Gulch	4/08	-	13.1e	-	11.7*
Rock Creek	3/27	-	28.3e	28.4	28.3
Webber Springs (April 1 value estimated from measurement taken on 4/8.	4/01	-	27.0e	29.6	21.5
Webber Springs - April 8	4/08	83	29.0	-	-
e - estimated					
* - less than 15 years					
Corrected values are underlined.					

e - estimated

* - less than 15 years

Corrected values are underlined.

PRECIPITATION (Inches) FOR MONTH OF MAY

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average †
Bald Mountain	9380	6/01	6.10 S	3.50 S	-
Big Sandy Opening	9080	6/01	5.20 S	1.60 S	2.41
Blind Bull Summit	8650	6/01	5.20 S	1.80 S	-
Bone Springs Divide	9350	6/01	5.90 S	3.50 S	-
Burroughs Creek	8750	6/01	2.90 S	3.20 S	-
Carter Mountain	7950	5/30	4.80	2.80	2.29*
Casper Mountain	7850	6/02	4.56	2.31	4.16*
Dome Lake	8870	6/01	5.90 S	3.60 S	-
Grassy Lake	7265	5/30	6.30	1.91	4.29
Grover Park Divide	7000	5/29	5.55	2.20	2.50*
Hobbs Park	10100	6/01	7.30 S	4.60 S	-
Kelley Ranger Station	8180	5/30	5.00 E	2.70	2.31*
Lewis Lake Divide	7850	5/30	5.00	1.78	3.38*
Little Warm	9620	6/01	4.00 S	2.80 S	-
Moran (NWS)	6500	5/31	3.76	0.63	1.81
North French Creek	10125	6/01	5.60 S	2.90 S	3.52*
Old Battle	9920	6/01	6.10 ES	4.10 S	3.43*
Powder River Pass	9480	5/29	4.50	4.00	2.93
Salt River Summit	7700	5/29	5.07	1.19	1.52
Shell Creek	9580	6/01	5.40 S	4.30	-
Snake River Station (NWS)	6920	5/31	4.77	1.04	2.32
South Brush Creek	8440	6/01	4.50 S	-	-
Spring Creek Divide	9000	6/01	5.30 S	2.90	-
Sucker Creek	8880	6/01	4.40 S	-	-
Timber Creek	7950	5/29	7.40	3.50	3.30*
Togwotee Pass	9580	5/30	4.50	3.02	3.52
Warren Peak	6520	5/29	3.12	1.25	2.34*
Webber Spring	9250	6/01	4.10 S	2.40 S	-

S SNOTEL terminal reading

E Estimated

* Less than 15 years

BASIC DATA

SUPPLEMENTAL MEASUREMENTS

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †

DECEMBER 15, 1979

Carter Mountain	12/14	7	1.4	3.2	-
East Entrance	12/15	13	1.9	5.0	-
Grassy Lake	12/17	23	6.0	12.5	-
Lewis Lake Divide	12/17	27	6.5	12.0	-
Marquette Creek	12/14	8	2.0	5.2	-
Sylvan Pass	12/15	16	2.2	4.8	-
Togwotee Pass	12/17	28	6.5	7.0	-
Wolverine	12/12	14	2.4	5.9	-

JANUARY 1, 1980

Afton R.S.	12/26	10	0.8	2.8	1.8*
Arizona	12/27	23	4.0	9.6	7.6
Aster Creek	12/26	31	5.6	11.8	12.1
Base Camp	12/27	19	3.0	10.9	8.2
Canyon	12/31	21	3.0	8.4	6.5*
Carter Mountain	12/31	12	1.9	3.2	-
Casper Mountain	1/04	28	8.4	4.7	6.3
CCC Camp	12/26	15	2.0	6.0	4.9
Darby Canyon	1/03	28	6.0	10.0	9.5e
East Entrance	1/02	15	3.2e	6.7	4.4
Fisher Creek	12/31	-	11.0e	17.5	17.7e
Freds Mountain	12/27	27	6.0	9.2	8.6e
Glade Creek	12/26	26	4.3	10.7	8.8
Grassy Lake	12/26	34	7.1	15.8	14.4
Greys Boundary	12/27	11	1.2	6.6	4.0
Grover Park Divide	12/27	14	1.6	5.2	4.5
Huckleberry Divide	12/27	27	5.2	11.9	8.7
Indian Meadows	12/28	41	11.0	14.1	-
Jackpine Creek	12/28	23	5.2	8.8	-
Lake Camp	1/01	11	1.5	5.3	3.6
Lewis Lake Divide	12/26	41	8.3	16.1	16.5
Lupine Creek	1/04	14	2.5	5.6	4.8
Mallo Pillow	12/27	-	2.4	-	-
Marquette Creek	12/30	15	2.3	5.1	-
Moran	12/27	13	1.4	7.8	5.2
Mount Tom Pillow	1/02	-	0.1	-	-
Norris Basin	1/03	15	2.0	6.6	5.0
Northeast Entrance	12/30	10	1.9	5.3	3.7
Old Faithful	12/30	16	2.7	7.0	-
Salt River Summit	12/26	19	2.8	8.4	5.9
Snake River Station	12/26	25	4.3	9.7	8.0
Snow King Mountain	- No Report	-	-	9.2	6.3
Sweetwater Mtn. Pillow	12/27	-	1.8	-	-
Sylvan Pass	1/02	18	3.8	6.8	5.9
Thumb Divide	12/26	25	3.8	8.2	8.6
Togwotee Pass	12/27	30	7.5	14.3	13.4*
Twenty-One Mile	12/27	19	3.6	6.3	7.8
West Yellowstone	12/27	17	2.6	4.8	5.1
White Mill	12/31	-	7.0e	14.2	13.8e
Wolverine	12/27	17	4.2	9.2	-

e Estimated

* Less than 15 years

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (Inches)	
				Last Yr.	Ave. †

MAY 15, 1980

Brooklyn Lake	5/14	67	29.7	-	-
Casper Mountain	5/14	40	15.1	-	17.8*
North Barrett Creek	5/15	-	24.6e	-	21.9*
North French Cr. Pillow	5/15	-	33.6e	30.2	26.5
Old Battle	5/15	-	43.7e	44.0e	36.3
Rock Creek	5/15	-	37.3e	-	-
Ryan Park	5/15	-	1.2e	-	4.2*
South Brush Creek	5/15	-	6.5e	-	-
Webber Springs	5/15	-	16.4e	19.0e	13.2

JUNE 1, 1980

Brooklyn Lake	5/30	49	25.2	-	-
Casper Mountain	6/02	0	0.0	0.0	-
Grassy Lake	5/30	0	0.0	10.2	16.0*
Lewis Lake Divide	5/30	38	18.3	23.1	35.9*
North Barrett Creek	6/01	-	20.8e	-	13.2*
North French Cr. Pillow	6/01	-	24.0e	18.9	18.6*
Old Battle	6/01	-	29.8e	44.0e	36.3*
Ryan Park	6/01	-	0.0e	-	-
South Brush Cr. Pillow	6/01	-	0.0	-	-
Togwotee Pass	5/30	41	20.0	16.6	31.5*
Webber Springs	6/01	-	6.0e	19.0e	13.2

e Value estimated for snow course using SNOTEL data.

* Less than 15 years in period.